

FIG. 1

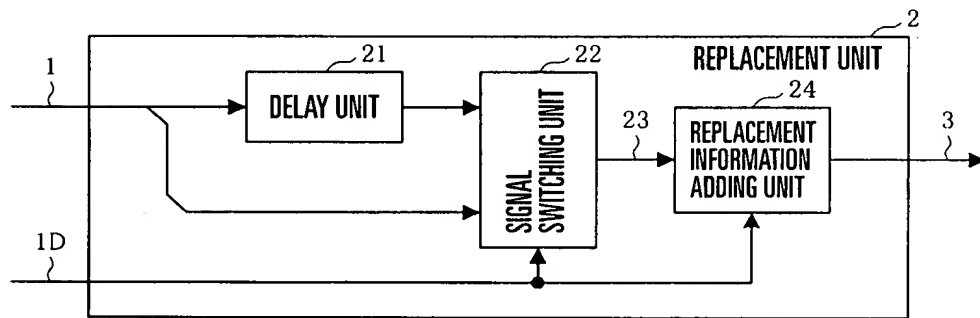


FIG. 2A

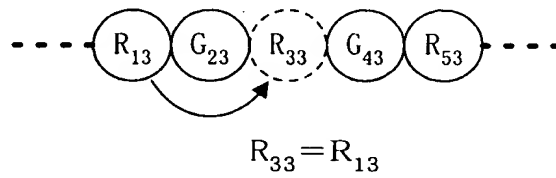


FIG. 2B

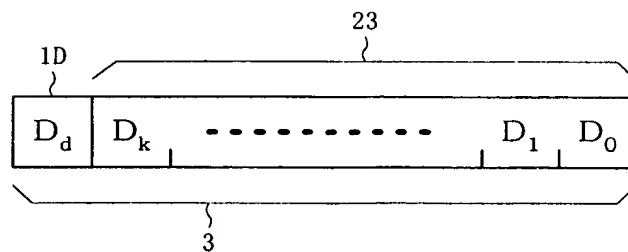


FIG. 2C

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graph LR
    1((1)) --> 21A[21A DELAY UNIT]
    1 --> 21B[21B DELAY UNIT]
    1 --> 22[22 SIGNAL SWITCHING UNIT]
    21A --> 22
    21B --> 24A[24A AVERAGE CALCULATION UNIT]
    24A --> 22
    1D((1D)) --> 22
    22 -- 23 --> 24[24 REPLACEMENT INFORMATION ADDING UNIT]
    24 -- 3 --> 3((3))
    subgraph 2 [REPLACEMENT UNIT 2]
        21A
        21B
        24A
        22
        24
    end

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$$R_{33} = \frac{R_{13} + R_{53}}{2}$$

FIG. 3B

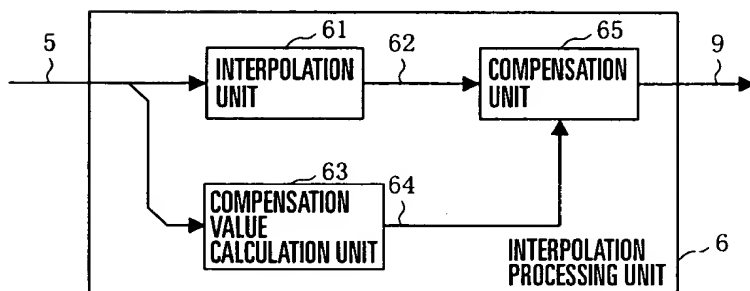


FIG. 4

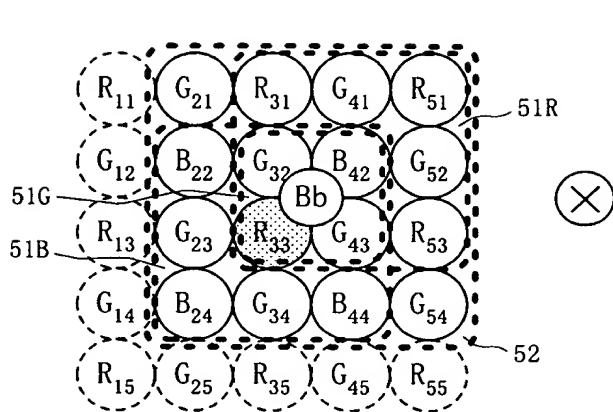


FIG. 5A

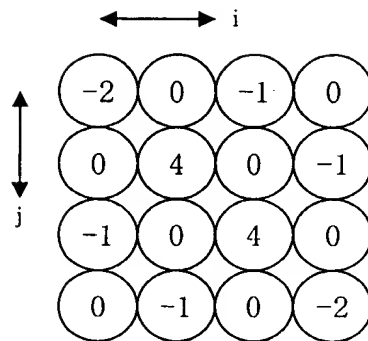


FIG. 5B

$$g_{Bb} = \frac{G_{32} + G_{43}}{2}$$

$$r_{Bb} = \frac{5 \times R_{33} + R_{31} + R_{51} + R_{53}}{8}$$

$$bBb = \frac{5 \times B_{42} + B_{22} + B_{24} + B_{44}}{8}$$

$$\text{HFBB} = \frac{4 \times (G_{32} + G_{43}) - 2 \times (G_{21} + G_{54}) - (G_{41} + G_{52} + G_{23} + G_{34})}{\text{gf}}$$

$$g'Bb = Ga + HFBb$$

$$r'Bb = Ra + HFBb$$

$$b'Bb = Ba + HFBb$$

FIG. 5C



FIG. 8

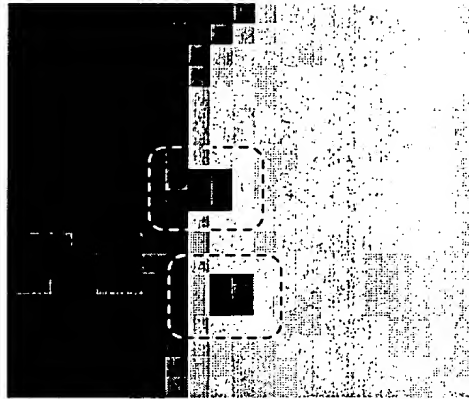


FIG. 9

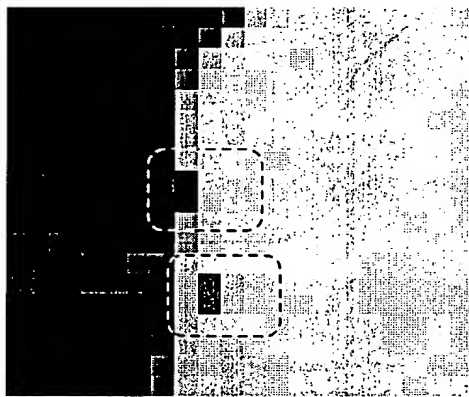
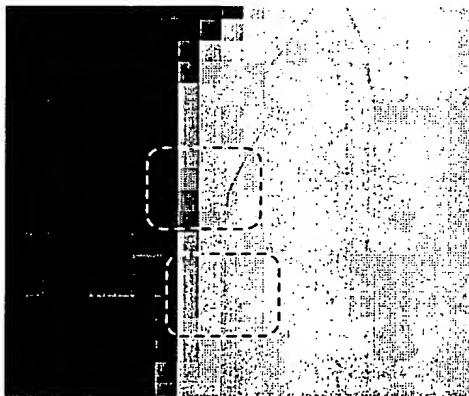


FIG. 10



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A 5x5 grid of nodes. The nodes are labeled as follows:

$R_{11}$	$G_{21}$	$R_{31}$	$G_{41}$	$R_{51}$
$G_{12}$	$B_{22}$	$G_{32}$	$B_{42}$	$G_{52}$
$R_{13}$	$G_{23}$	$R_{33}$	$G_{43}$	$R_{53}$
$G_{14}$	$B_{24}$	$G_{34}$	$B_{44}$	$G_{54}$

The central node  $G_{33}$  is marked with an 'X'. A thick line highlights a path starting from  $R_{31}$ , going down to  $R_{33}$ , then right to  $G_{34}$ , and finally up to  $G_{32}$ . An arrow labeled 31 points to the right, and a dashed line labeled 32 is at the top right.

FIG. 12B

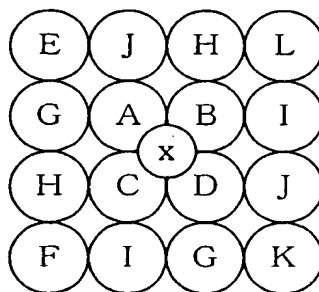


FIG. 12C

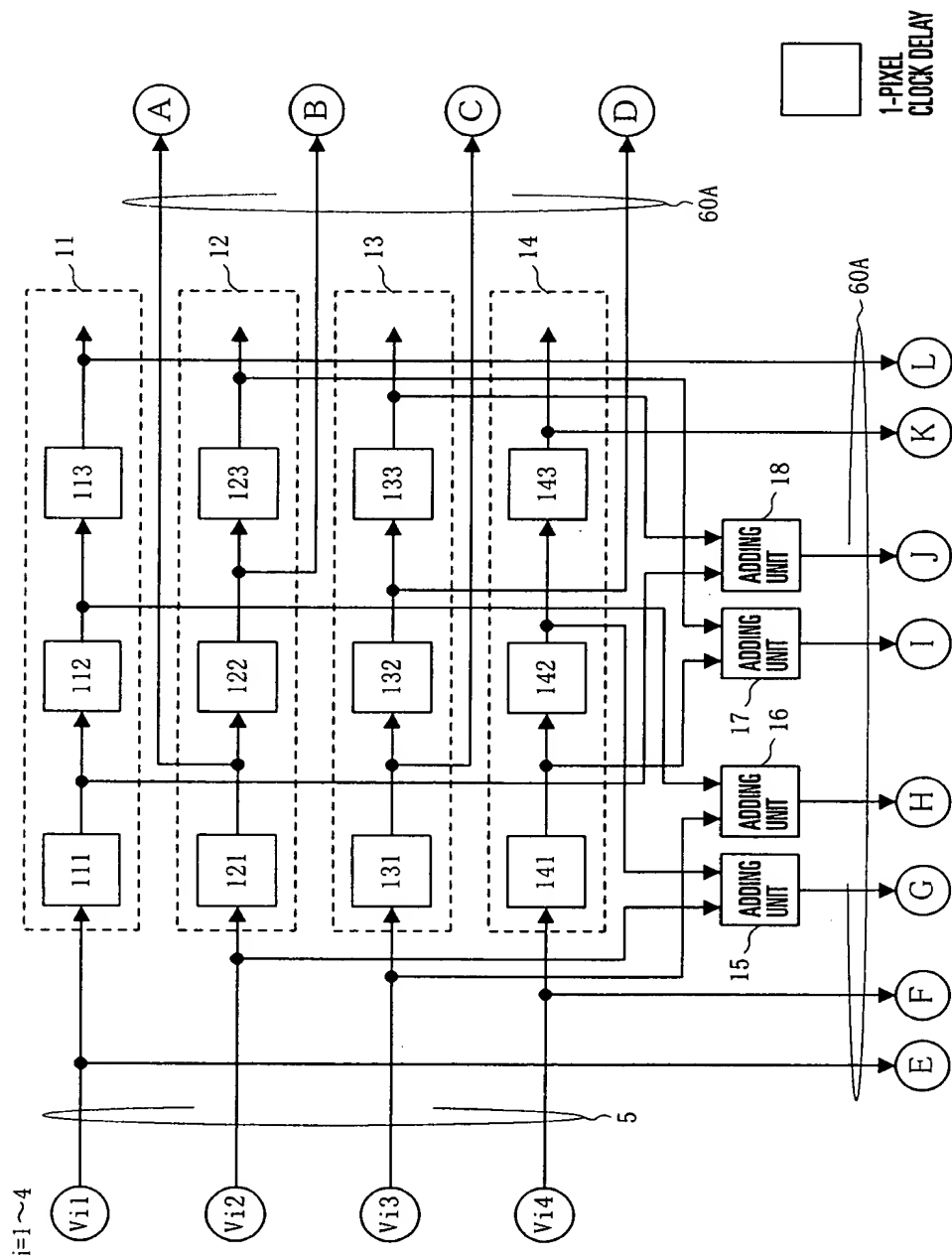


FIG. 13

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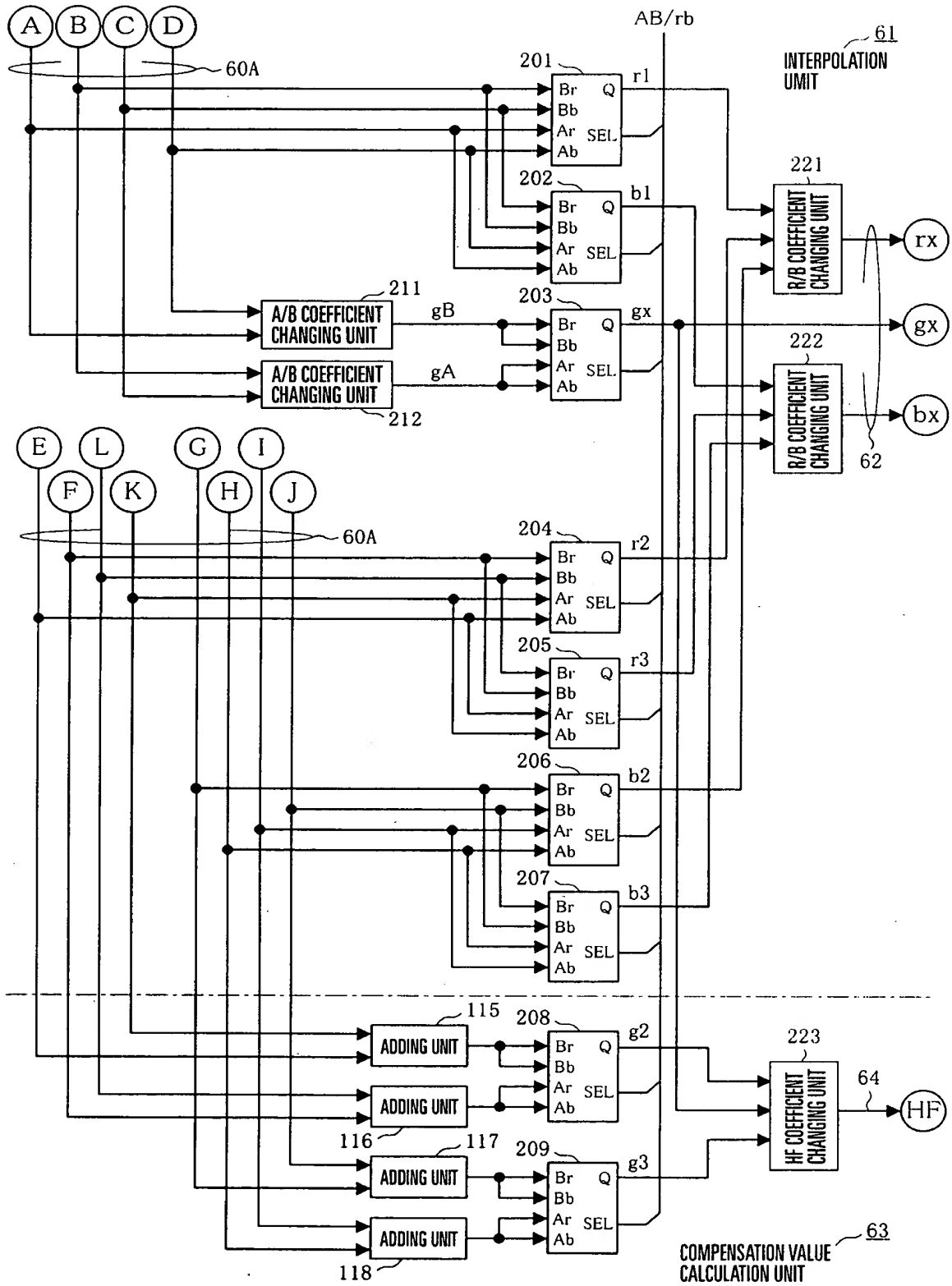


FIG. 14



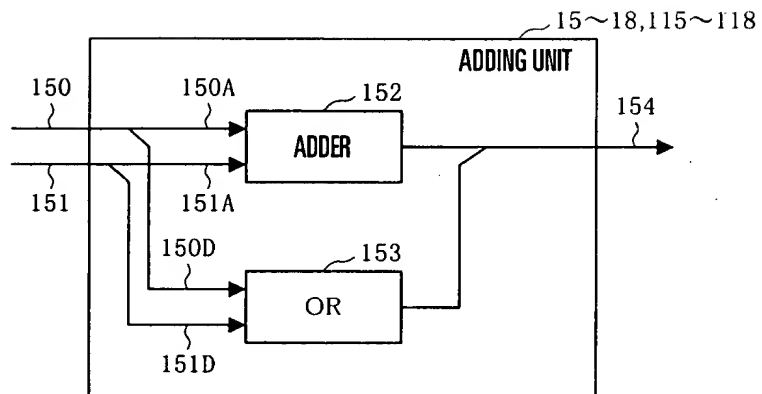


FIG. 15

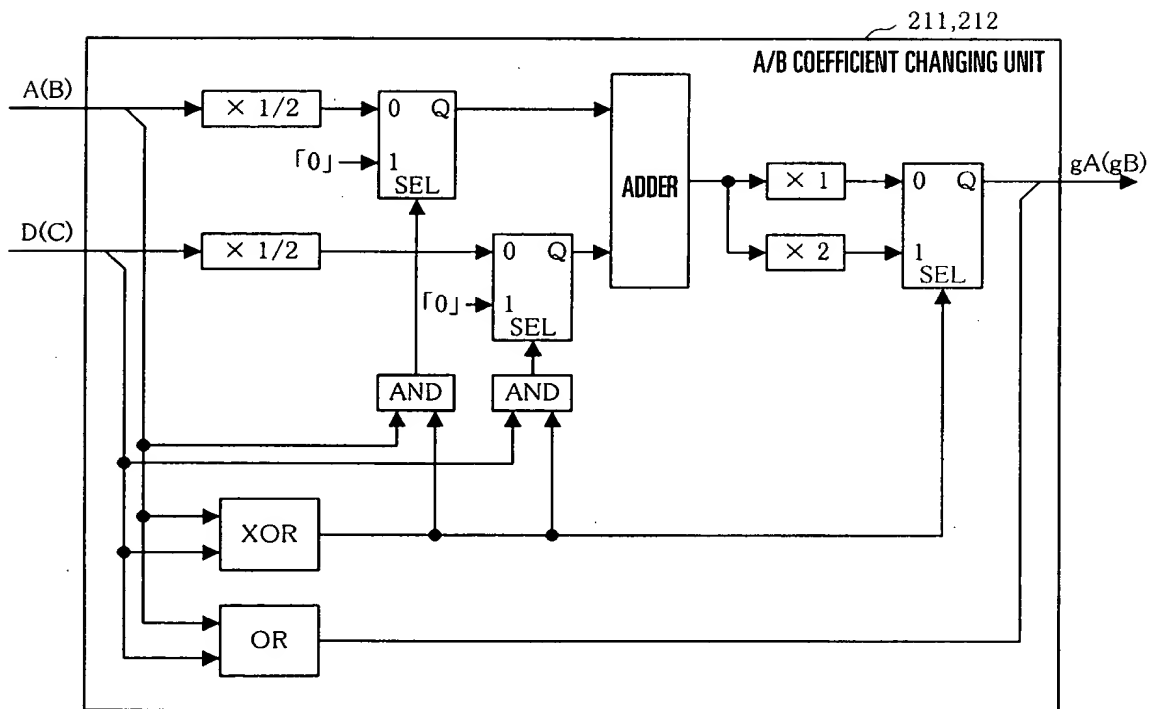
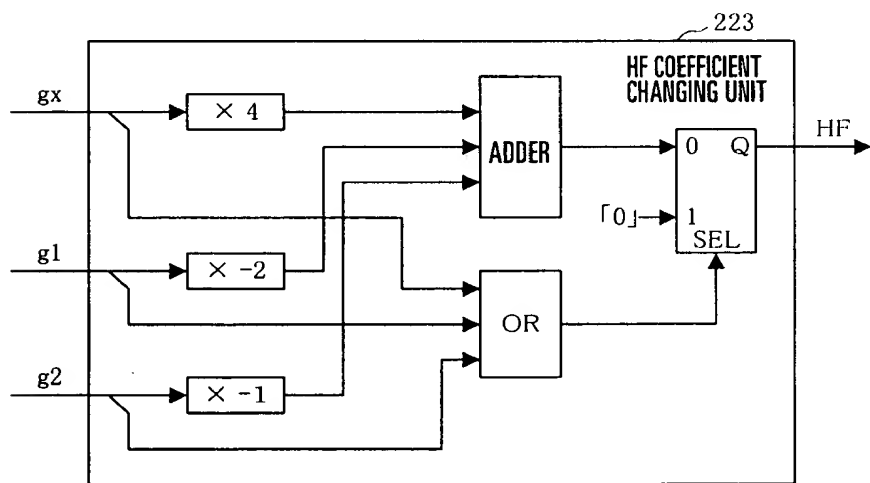
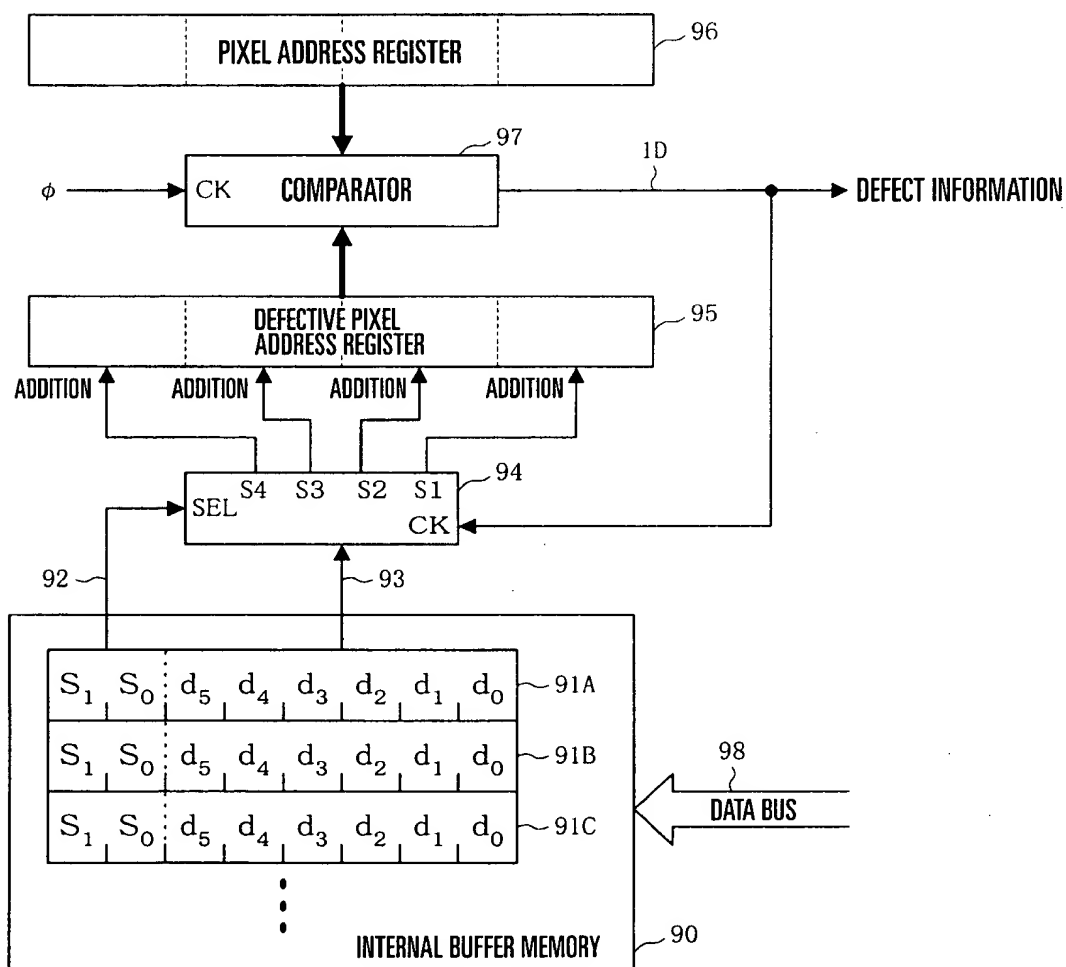


FIG. 16

[illegible]



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FIG. 21A

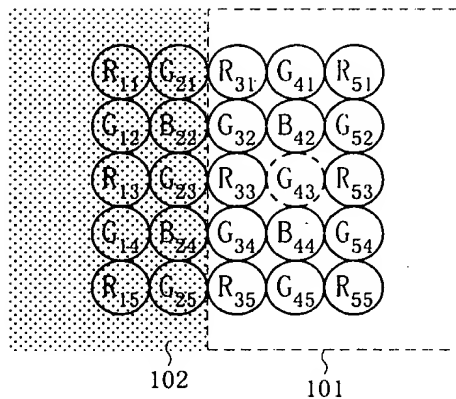


FIG. 21B

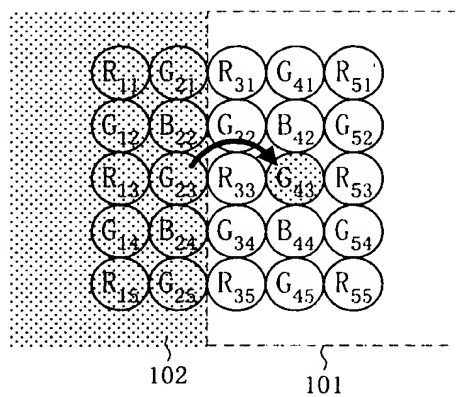


FIG. 21C

